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10/658,696

09/09/2003

Rene Duzac

CIS03-40(7847)

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10/03/2005

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EXAMINER

TRAN, DUE NGOC

ART UNIT

PAPER NUMBER

2841

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/658,696 | Applicant(s) DUZAC, RENE | |
| | Examiner Due N. Tran | Art Unit 2841 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>11/19/04</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: on page 9 lines 15,16, and 18 the reference number "54" appears to be inaccurate reference number for the load. Perhaps applicant intended reference number "64" which is shown in figure 2.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-6, 8-14, 16-22, and 24-28 are rejected under U.S.C. 102(e) as being anticipated by Chen (U.S 6,568,542).

3. With respect to claim 1, Chen discloses a support assembly for supporting at least one cable connected to a circuit board assembly, the support assembly

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comprising: a support defining a first plane (Fig. 1 element 10); a connection portion in communication with the support, the connection portion configured to couple with the circuit board assembly (Fig. 4 element 40); and a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with the circuit board assembly (Fig. 1 element 20) and the at least one cable exerts a load on the support (page 7, col. 2, lines 41-44).

4. With respect to claims 2, 10, and 18 Chen discloses the lip of the support assembly defines a stop, the stop substantially perpendicular to the first plane defined by the support and configured to abut a faceplate in communication with the circuit board assembly, the stop configured to limit rotation of the support relative to the faceplate when the at least one cable exerts a load on the support (see examiner figure's next page).

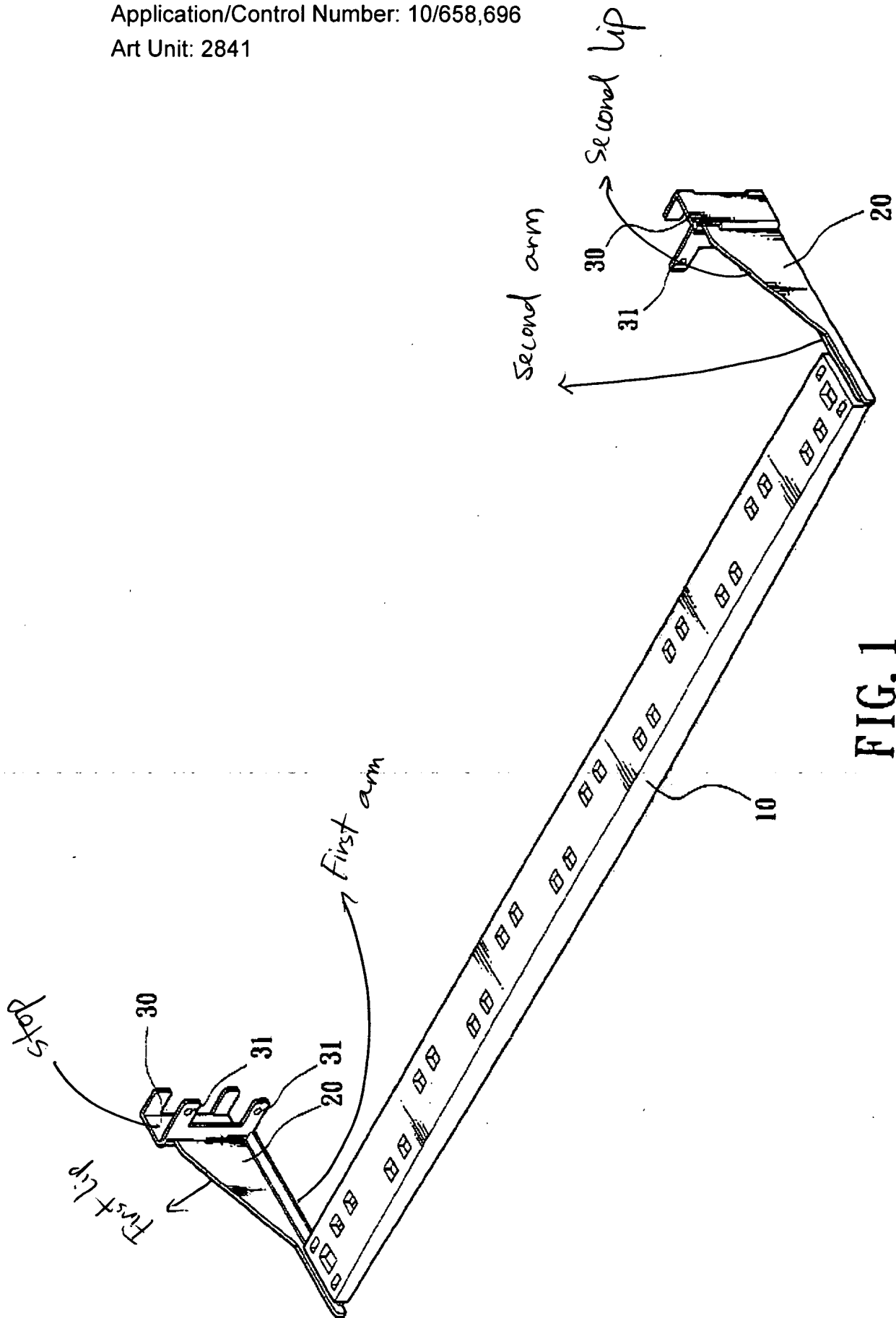


FIG. 1

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5. With respect to claims 3, 11, and 19, Chen discloses a coupling member in communication with the lip, the coupling member configured to engage the faceplate via an opening, defined by the faceplate, to form a latch, the latch configured to couple the support assembly to the faceplate (Fig.1 element 30).

6. With respect to claim 4, Chen discloses the support assembly in accordance with claim 3 wherein the lip defines a height relative to the support the height of the lip configured to align the coupling member with a chassis fastening mechanism coupled to the faceplate and adjacent to the first opening defined by the faceplate (Fig. 1, element 20).

7. With respect to claims 5, 13, and 21, Chen discloses a coupling member in communication with the support, the a coupling member configured to engage a faceplate in communication with the circuit board assembly via an opening, defined by the faceplate, to form a latch to couple the support assembly to the faceplate (Fig. 1 element 31).

8. With respect to claims 6, 14, and 22, Chen discloses the coupling member is configured to align with a chassis fastening mechanism coupled to the faceplate and adjacent to the opening defined by the faceplate (Fig. 4 and page 7,col.3, lines 8-10).

9. With respect to claims 8, 16, and 24 Chen discloses the support comprises a handle having a first arm and a second arm in communication with the first arm, the handle configured to couple with the circuit board assembly; and the lip comprises a first lip in communication with the first arm, the first lip defining a first plane substantially perpendicular to the first arm and a second lip

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in communication with the second arm, the second lip defining a second plane substantially perpendicular to the second arm, the first lip and the second lip configured to limit deflection of the handle relative to the circuit board assembly when the at least one cable exerts a load on the handle (see examiner's figure on page 4 above) .

10. With respect to claim 9, Chen discloses a faceplate assembly comprising: a faceplate configured to couple to a circuit board assembly (Fig. 4 element 40), the faceplate defining an opening configured to provide access to a cable connector of the circuit board assembly (Fig.4); and a support assembly for supporting at least one cable connected to the cable connector of the circuit board assembly, the support assembly in communication with the faceplate and the support assembly having: a support defining a first plane (Fig. 1 element 10); a connection portion in communication with the support, the connection portion configured to couple with the circuit board assembly (Fig. 4 element 40); and a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with the circuit board assembly (Fig. 1 element 20) and the at least one cable exerts a load on the support (page 7, col. 2, lines 41-44).

11. With respect to claims 12 and 20, Chen discloses the faceplate comprises a chassis fastening mechanism (page 7, col.3, lines 8-10); and the lip defines a height relative to the support the height of the lip configured to align the coupling

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member with a chassis fastening mechanism coupled to the faceplate and adjacent to the first opening defined by the faceplate (Fig. 1, element 20).

12. With respect to claim 17, Chen discloses a circuit board module comprising; a circuit board assembly having a circuit board and a cable connector coupled to the circuit board (Fig. 4); and a faceplate assembly including: a faceplate coupled to the support mount of the circuit board assembly and defining an opening to provide access to the cable connector (Fig.4); and a support assembly for supporting at least one cable connected to the cable connector of the circuit board assembly (Fig. 1), the support assembly in communication with the faceplate and the support assembly having: a support defining a first plane (Fig. 1 element 10); a connection portion in communication with the support, the connection portion configured to couple with the circuit board assembly (Fig. 4 element 40); and a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with the circuit board assembly (Fig. 1 element 20) and the at least one cable exerts a load on the support (page 7, col. 2, lines 41-44).

13. Regarding to method claims 25- 28, one skill in the art would necessarily perform the recited method steps in assembling a circuit board module rejected above.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 7, 15, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (US 6,568,542) in view of Tirrell et al (US 6,791,841)

15. As noted above in the rejections under 35 USC 102(e), Chen discloses the invention in accordance with claims 1, 9, and 17 however, Chen does not disclose expressly wherein the connection portion is configured to couple with a ground plane of the circuit board assembly.

The Tirrell reference, however, discloses the connection portion is configured to couple with a ground plane of the circuit board assembly (page 10, col. 6, lines 8-19).

Chen and Tirrell are analogous art because they are from the same field of endeavor (cable rack).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to couple the faceplate with the ground plane of the circuit board assembly to the cable rack of Chen.

The suggestion and motivation for doing so would have been obvious in view of the teaching of Tirrell in col.6, lines 17 in reducing EMI emissions.

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Therefore, it would have been obvious to combine Tirrell with Chen to form a cable rack with a faceplate connects to the ground plane of the circuit board to obtain the invention as specified in claims 7,15, and 23.

Relevant Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

16. The Pulizzi (US 6,679,722) and Debal (US 6,396,992) references teach a cable rack with a lip couple to the support.

Conclusion

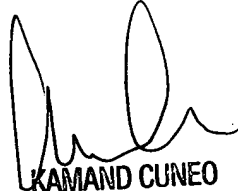
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Due N. Tran whose telephone number is (571) 272-5984. The examiner can normally be reached on Monday-Thursday, 9:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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